

Notice of Allowability	Application No.	Applicant(s)	
	10/632,190	SENTHIL, MUTHU	
	Examiner	Art Unit	
	Sathyanarayan Pannala	2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/17/2009.
2. ☒ The allowed claim(s) is/are 6-20 (renumbered as 1-15).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20090903</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Sathyanarayan Pannala/
Primary Examiner, Art Unit 2164

DETAILED ACTION

1. Applicant's Amendment filed on 6/17/2009 has been entered. In this Office Action, claims 1, 3-20 are pending.
2. Examiner called Applicant for compact prosecution on 9/3/2009 to cancel claim 1 and its dependent claims 3-5 in order to allow independent claims 6 and 14. Claims 6 and 14 are very specific in comparison to claim 1. Applicant agreed in consultation with the client (See Interview Summary).

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Aaron Kamlay, Reg. No. 58,813 on 9/3/2009.

Claims: Replace amended on record claims 1-6 and 14 with the following:

1-5 (Canceled).

- 6.** (Currently Amended) A computer-implemented method comprising:
calculating, by a processor of the computer, a Levenshtein matrix of a first string and a second string;

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- determining a Levenshtein distance from said Levenshtein matrix;
- determining a longest diagonal of equal hamming distance within the Levenshtein matrix;
- determining a substring corresponding to the longest diagonal within said Levenshtein matrix, the substring being the largest common substring of the first and second strings;
- calculating a Levenshtein score as a function of said Levenshtein distance;
- calculating a largest common substring score as a function of said largest common substring;
- storing at least one of: the Levenshtein matrix, the Levenshtein distance, the largest common substring, the Levenshtein score, and the largest common substring score in a computer-readable storage medium;
- determining a similarity between said first string and said second string as a function of said Levenshtein score and said largest common substring score; and
- based upon said similarity, automating at least one of data entry for a database, processing within a database, or reporting from a database ~~for a database based upon said similarity~~, the database including at least one of said first or second strings.

14. (Currently Amended) A computer-readable storage medium containing one or more sequences of executable instructions which ~~when executed by a computing device~~ cause ~~[[the]]~~ a computing device to implement a method for determining a similarity comprising:

- calculating a Levenshtein matrix of a first string and a second string;
- determining a Levenshtein distance from said Levenshtein matrix;
- determining a longest diagonal of equal hamming distance within the Levenshtein matrix;
- determining a substring corresponding to the longest diagonal within said Levenshtein matrix, the substring being the largest common substring of the first and second strings;
- calculating a Levenshtein score as a function of said Levenshtein distance;

calculating a largest common substring score as a function of said largest common substring;

storing at least one of: the Levenshtein matrix, the Levenshtein distance, the largest common substring, the Levenshtein score, and the largest common substring score in a computer-readable storage medium;

calculating a first numerical score as a function of said Levenshtein score and said largest common substring score; and

based upon said similarity, automating at least one of data entry for a database, processing within a database, or reporting from a database ~~for a database based upon said similarity,~~ the database including at least one of said first or second strings.

Reasons for allowance

4. The following is an examiner's statement of reasons for allowance:
- Prior art of record does not teach or suggest or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims 6 and 14. The prior art of record fails to teach or suggest in combination of claimed elements including "determining a longest diagonal of equal hamming distance within the Levenshtein matrix", and "determining a substring corresponding to the longest diagonal within said Levenshtein matrix, the substring being the largest common substring of the first and second strings" as recited in independent claims 6 and 14.
 - Applicant's arguments in Remarks section on page 7, paragraph last to page 8, paragraph one are convincing and valid.

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sathyanarayan Pannala whose telephone number is (571) 272-4115. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sathyanarayan Pannala/
Primary Examiner, Art Unit 2164

srp
September 3, 2009